ease 2001/98/APINGLA
January 23, 1964

ABD-4 Roll Film Dryer

STATINTL

STATINTL

The ABD-4 is an air bearing dryer for use with the existing HTA/2 Film Processor. It replaces the old dessicant dryer which was not moved from the old location.

STATINTL

is doing the test work on it and he is doing a thorough job. The machine is tracking well except for tracking over the output vacuum roller. This appeared to be inadequate tension as the film came off the air bearings. Jack experimented with tension rollers just ahead of the Vacuum roller but it did not solve the problem completely. So, he did two other things, and elei eliminated the tension First he ground the vacuum roller \$4 so that it was perfectly cylindrical to half a thousandth of an inch. Next he improved the flow of air in the plenums so that the air pressure at the bearings in-creased. Thus he could increase the resistance on the dancing roller so that the film would have increased tension as it was fed to the recalcitrant vacuum There was a 90% improvement in tracking. He is going to try to get further improvement by adding a slight taper to the ends of the vacuum roller. The tapered rollers have been successfully used in their storage and retrieval equipment.

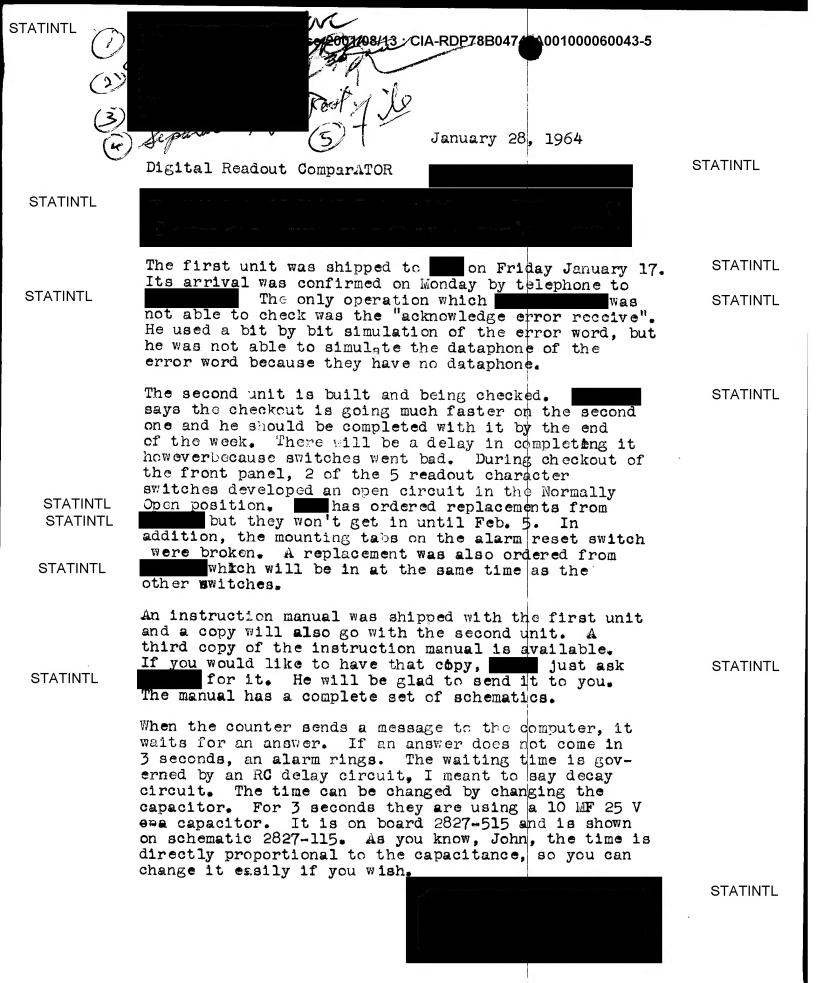
STATINTL

The vacuum rollers do not have teflon coating, they are 316 stainless. At present, has no plans to add teflon coating to the rollers. It is possible that the thin base film could stick to the entering vacuum roller if it were tacky instead of wet when it entered. This problem was encountered on the HTA/5. There should be no problem with the exit vacuum roller since the film will be dry as it passes out of the dry box and over this roller.

Jack has put 150 to 200 hours of running time on the machine. His longest contincus run was 8 hours. He has no touble drying S0278 (new called 8430) at 15 fpm. This is pretty good for a dryer that size. When he gets it tracking to his satisfaction, he will run 70mm, 5 in. and 9½ in. film, thin base type.

STATINTL

Declass Review by NIMA / DoD



January 28, 1964

STATINTL

STATINTL

has started fabrication of the Master driver pattern, and they are committed to complete on the March 19 date which was established last December. A purchase order was sent to last Friday to make the production driver from master. quoted 4 weeks to do this.

STATINTL STATINTL

STATINTL

So the program is pretty well on schedule now and the mid-July completion date looks pretty good.

Now they have e to get on the ball on the electronics items. They can't let them slip along any more or they will become pacing.

STATINTL

STATINTL STATINTL When gets one cycle of the pattern generated, he will send a copy to TC. They will send it over to for measurement.

showed me a description of a film reader they expect to be making for White Sands soon. some of the basic features you would want in a measuring engine film reader for will be glad to send you the description, you would like to see it. Just ask him for it if you want it.

STATINTL STATINTL

The Telecordex and equipment you have on order from TC is scheduled fre for delivery March 6 according to the contract. Their production report says they are a few days ahead of schedule, essay as of Jan 24.

STATINTL

